



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

1098299

OPTICAL SIGNAL TRANSMITTING AND RECEIVING DEVICE

Patent Number: JP1098299

Publication date: 1989-04-17

Inventor(s): YOKOYAMA TORU; others: 01

Applicant(s): FUJITSU LTD

Application Number: JP19870256796 19871012

Priority Number(s):

IPC Classification: H05K9/00 ; H01L31/12 ; H04B9/00

EC Classification:

Abstract

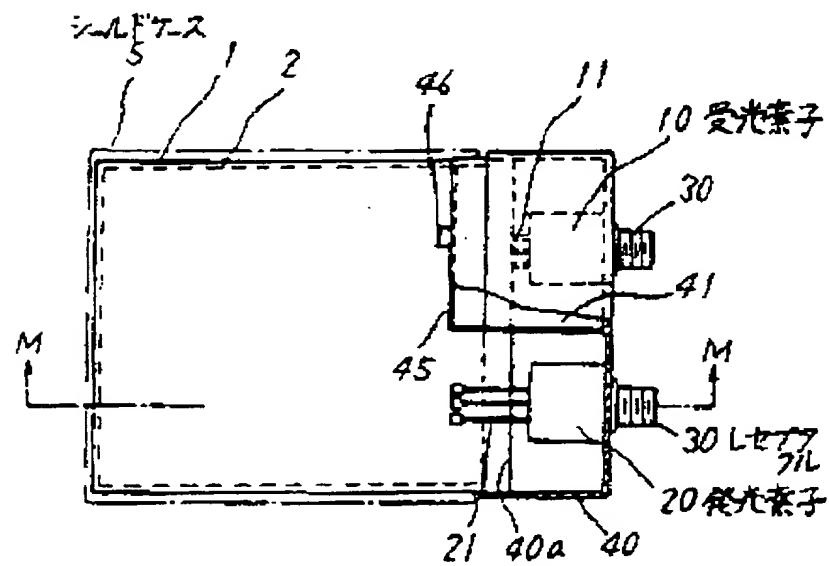
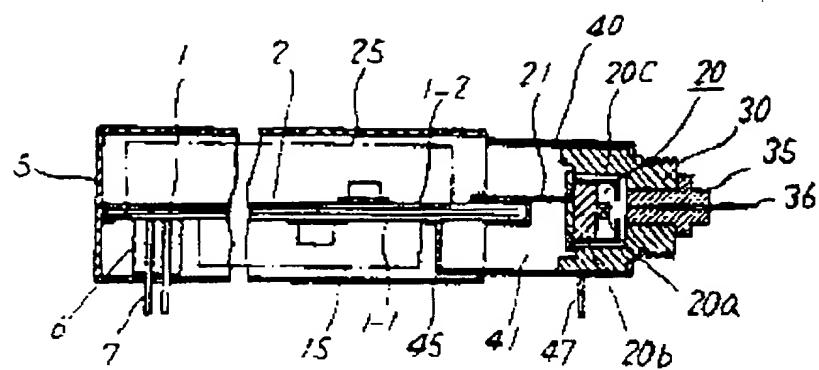
PURPOSE: To improve SN ratio and plan the improvement of receiving sensitivity without crosstalking and interfering from transmitter to transmitter by electromagnetically separating a receiving circuit and a transmitting circuit with a shield inner layer and a shield case and electromagnetically taking away a light receiving element and a light transmitting element each other.

CONSTITUTION: A shield inner layer 2 is provided in a printed wiring board 1, the outer circumferential surface of the printed wiring board 1 is covered by a shield case 5, and a receiving circuit 15 and a transmitting circuit 25 are electromagnetically separated each other. Thus, crosstalk is eliminated from the transmitting circuit 25 to the receiving circuit 15. Further, since a light receiving element 10 including a light receiving element terminal 11 and a light transmitting element 20 including a light transmitting element terminal 21

BEST AVAILABLE COPY

are electromagnetically separated by a receptacle case 40, a partition plate 41 and a shield plate 45 each other and shielded, electric field from a transmitter and especially a light transmitting element terminal 21 is applied on a light receiving element terminal 11 and SN ratio of a receiver is high without interference by crosstalk.

BEST AVAILABLE COPY



BEST AVAILABLE COPY